ABSTRACT OF THE DISCLOSURE

The present invention is directed to a method for determining whether a location associated with a wireless station, such as a cellular telephone, is located within an area of interest. The area of interest is defined using quadtree representation of an area that includes the area of interest and identifying nodes within the quadtree that represent the area of interest. By iterative comparison of the location associated with the wireless station to the locations associated with a node at each level of the quadtree, a determination can be made as to whether or not the location associated with the wireless station is within the area of interest.